VEHICLE INFORMATION/TEST SPECIFICATIONS
FMVSS 124 - Accelerator Control Systems

Requested Information:

1.) A sketch of the driver operated accelerator control system (ACS) starting from the accelerator pedal up to and including the fuel metering device (carburetor, fuel injectors, fuel distributor, or fuel injection pump).

2.) For Normal ACS operation, the method utilized to determine the engine idle state (air throttle plate position, fuel delivery rate, other).

3.) For Fail-Safe operation of the ACS (disconnection or severance), the method utilized to determine return of engine power to the idle state (air throttle plate position, fuel delivery rate, air intake, engine rpm, other)

4.) Is the vehicle ACS equipped with any of the following:
- A. Accelerator Pedal Position Sensor (APS)
- B. Throttle Plate Position Sensor (TPS)
- C. Electronic Control Module (ECM)
- D. Air throttle plate actuator motor

5.) If air throttle plate equipped, is there a procedure which can be utilized by the test laboratory to measure the position of the throttle plate by tapping into the TPS or ECM? If so, please describe.

6.) Point(s) chosen to demonstrate compliance with FMVSS 124 for single point disconnect and severance.

7.) Where applicable, were connections in the ACS beyond the ECM such as the fuel injectors tested for disconnection and severance. If yes, provide details.

8.) Where applicable, were idle return times tested for electrical severance accompanied by shorting to ground? If yes, please provide details.

9.) All sources of return energy (springs) for the accelerator pedal and if applicable, the air throttle plate.

10.) If fuel delivery rate is used to demonstrate return to idle state, provide:
- A. The method used to measure this signal i.e. connection to standard SAE J1587 data bus.
- B. Equipment required to measure signal.
- C. Fuel rate signal output range at the idle state.

11.) Is the ACS equipped with a limp home mode? If yes, provide operation description.

12.) Method by which the test laboratory can record engine RPM by connection to ECM, OBD connector, etc.